Laser Communication Component Technologies: Database; Status and Trends

H. Hemmati
Jet Propulsion Laboratory
California Institute of Technology
Pasadena, CA 91109

ABSTRACT

A database of component and subsystem technologies for free-space laser communications has been compiled. This document discusses technology assessment for free-space lasercomm components, and contains a collection of characteristics of commercially available and one-of-a-kind components that were made for laser communication and other relevant applications. The document also includes quantitative data on laser communication systems that were constructed in the past, along with plots of development trends for specific component technologies as a function of time. We intend to continually update this information with the assistance of lasercomm community and industries involved. First draft of the document will be distributed by mid 1996 for comments and corrections. It is expected that this collection of data will serve as a handbook to lasercomm system engineers and designers.